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## (54) USER EQUIPMENT SPECIFIC RELEASE OF SUPPLEMENTARY UPLINK CONFIGURATION (SUL)

(57) A communication technique for convergence of the 5G communication system for supporting higher data transmission rate after the 4G system with IoT technologies and a system thereof. Certain embodiments may be applied to intelligent services based on the 5G communication technologies and the IoT-associated technologies (for example, smart home, smart building, smart

city, smart car or connected car, health care, digital education, retail services, security and safe-associated services, etc.). A method and an apparatus which can substitute reporting UE capabilities by use of an identifier of the UE, without reporting the overall UE capabilities in a method of reporting UE's own capability.



### **EUROPEAN SEARCH REPORT**

**Application Number** 

EP 24 17 8524

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Category	Citation of document with in of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	HUAWEI ET AL: "Sol capabilities change 3GPP DRAFT; S2-1812 RADIO CAPABILITIES GENERATION PARTNERS MOBILE COMPETENCE CLUCIOLES; F-06921; F, vol. SA WG2, no. We 20181126 - 20181130 20 November 2018 (2 XP051498910, Retrieved from the URL:http://www.3gpp.FArch/TSGS2%5F129BI/Docs/S2%2D1812188% [retrieved on 2018-* paragraph 6.X.3 * figure 6.X.3-1 *	ution for UE radio ad", 188-SOLUTION FOR UE CHANGED-V7, 3RD HIP PROJECT (3GPP), ENTRE; 650, ROUTE DES SOPHIA-ANTIPOLIS CEDEX est Palm Beach, USA; 018-11-20), Internet: .org/ftp/tsg%5Fsa/WG2%5 S%5FWest%5FPalm%5FBeach 2Ezip 11-20]	1-15	INV. H04W8/24 H04W76/34  ADD. H04W76/27 H04W60/04  TECHNICAL FIELDS SEARCHED (IPC)
	Optimisation) CT im 3GPP DRAFT; C4-1911 PARTNERSHIP PROJECT COMPETENCE CENTRE; LUCIOLES; F-06921; FRANCE, vol. CT WG4, no. X' 20190408 - 20190412 7 April 2019 (2019- Retrieved from the URL:http://www.3gpp	-191112, 3RD GENERATION OJECT (3GPP), MOBILE TRE; 650, ROUTE DES 6921 SOPHIA-ANTIPOLIS CEDEX  O. X'ian, P.R. of China; 90412 2019-04-07), XP051699123, the Internet: .3gpp.org/ftp/Meetings%5F3GP ocs/C4%2D191112%2Ezip 2019-04-07]		H04W
	The present search report has	been drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
	Munich	28 August 2024	Rak	oe, Marcus
X : part Y : part docu A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anotument of the same category nological background written disclosure mediate document	E : earlier patent doc after the filing dat	ument, but puble e n the application or other reasons	ished on, or

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### **EUROPEAN SEARCH REPORT**

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EP 24 17 8524

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	DOCUMENTS CONSID	ERED TO BE RELEVANT		
Category	Citation of document with it of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	ANONYMOUS: "3rd Ge Project; Technical Services and System optimisations on UE signalling (Release 3GPP STANDARD; TECH 23.743, 3RD GENERAT (3GPP), MOBILE COME ROUTE DES LUCIOLES SOPHIA-ANTIPOLIS CE	eneration Partnership Specification Group Aspects; Study on radio capability 16)", INICAL REPORT; 3GPP TR PION PARTNERSHIP PROJECT PETENCE CENTRE; 650, F-06921 DEX; FRANCE, Ch 2019 (2019-03-28), 12959, 03-28] *	1-15	
A	650, ROUTE DES LUCI SOPHIA-ANTIPOLIS CE , vol. SA WG2, no. Xi 20190408 - 20190412 2 April 2019 (2019- Retrieved from the URL:http://www.3gpg	dio Capabilities dio Capabilities dion feature", 202-23501-RACS ATION PARTNERSHIP GILE COMPETENCE CENTRE; COLES; F-06921 CDEX; FRANCE  d'an, P.R.China;  104-02), XP051719366, Internet: 1007/ftp/tsg%5Fsa/WG2%5 FXiAn/Docs/S2%2D1903202	1-15	TECHNICAL FIELDS SEARCHED (IPC)
	The present search report has	been drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
	Munich	28 August 2024	Rab	e, Marcus
CATEGORY OF CITED DOCUMENTS  T: theory or principl E: earlier patent do X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category  L: document cited if		ument, but publise the application or other reasons	shed on, or	

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